

# MULTIBAND ANTENNA SYSTEM WITH TIRE PRESSURE SENSOR

## Abstract

A multiband antenna system includes a multiband antenna adapted to receive signals in a given frequency range, such as CB, and a trap to isolate signals in the tire pressure monitoring frequency ranges so that when it is mounted to the exterior of a vehicle in conventional manner, it will optimally receive signals sent from tire pressure monitors in the wheels. The system includes a multiplexer circuit that connects to tire pressure monitoring apparatus and isolates the tire pressure monitoring frequencies from CB frequencies. The antenna and multiplexer circuits are capable of simultaneously handling other frequencies as well such as AM/FM.